

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: REYNOLDS POND	Lake Area (ha):	7.73
Town: LITTLETON	Maximum depth (m):	2.4
County: Grafton	Mean depth (m):	0.9
River Basin: Connecticut	Volume (m ³):	64500
Latitude: 44°19'02" N	Relative depth:	0.8
Longitude: 71°53'35" W	Shore configuration:	1.57
Elevation (ft): 1041	Areal water load (m/yr):	7.18
Shore length (m): 1530	Flushing rate (yr ⁻¹):	8.40
Watershed area (ha): 119.8	P retention coeff.:	0.60
% watershed ponded: 0.0	Lake type:	natural w/dam

BIOLOGICAL:

16 February 2000

4 August 1999

DOM. PHYTOPLANKTON (% TOTAL)	#1	NO WINTER PLANKTON	MICROCYSTIS 40%
	#2	ANALYZED	GOMPHOSPHAERIA 8%
	#3		FILA BL-GR SPP 8%
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			4.58
DOM. ZOOPLANKTON (% TOTAL)	#1		CONOCHILUS 46%
	#2		CLADOCERAN SPP 46%
	#3		
ROTIFERS/LITER			48
MICROCRUSTACEA/LITER			48
ZOOPLANKTON ABUNDANCE (#/L)			105
VASCULAR PLANT ABUNDANCE			Scattered
SECCHI DISK TRANSPARENCY (m)			1.8
BOTTOM DISSOLVED OXYGEN (mg/L)		12.5	8.0
BACTERIA (E. coli, #/100 ml)	#1		1
	#2		3
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³) : None
Anoxic volume (m³) : None

CHEMICAL:

Lake: REYNOLDS POND

Town: LITTLETON

	16 February 2000		4 August 1999		
DEPTH (m)	1.5		1.0		2.0
pH (units)	6.8		7.4		7.5
A.N.C. (Alkalinity)	18.9		21.4		21.1
NITRATE NITROGEN	0.05		< 0.05		< 0.05
TOTAL KJELDAHL NITROGEN	0.34		0.70		0.50
TOTAL PHOSPHORUS	0.007		0.010		0.011
CONDUCTIVITY (μ mhos/cm)	67.5				63.0
APPARENT COLOR (cpu)	32		35		35
MAGNESIUM			1.32		
CALCIUM			10.0		
SODIUM			1.7		
POTASSIUM			0.45		
CHLORIDE	2		2		2
SULFATE	6		3		3
TN : TP	56		70		45
CALCITE SATURATION INDEX			1.6		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1999

D.O. S.D. PLANT CHL TOTAL CLASS

**	4	1	1	6	Meso.
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COMMENTS:

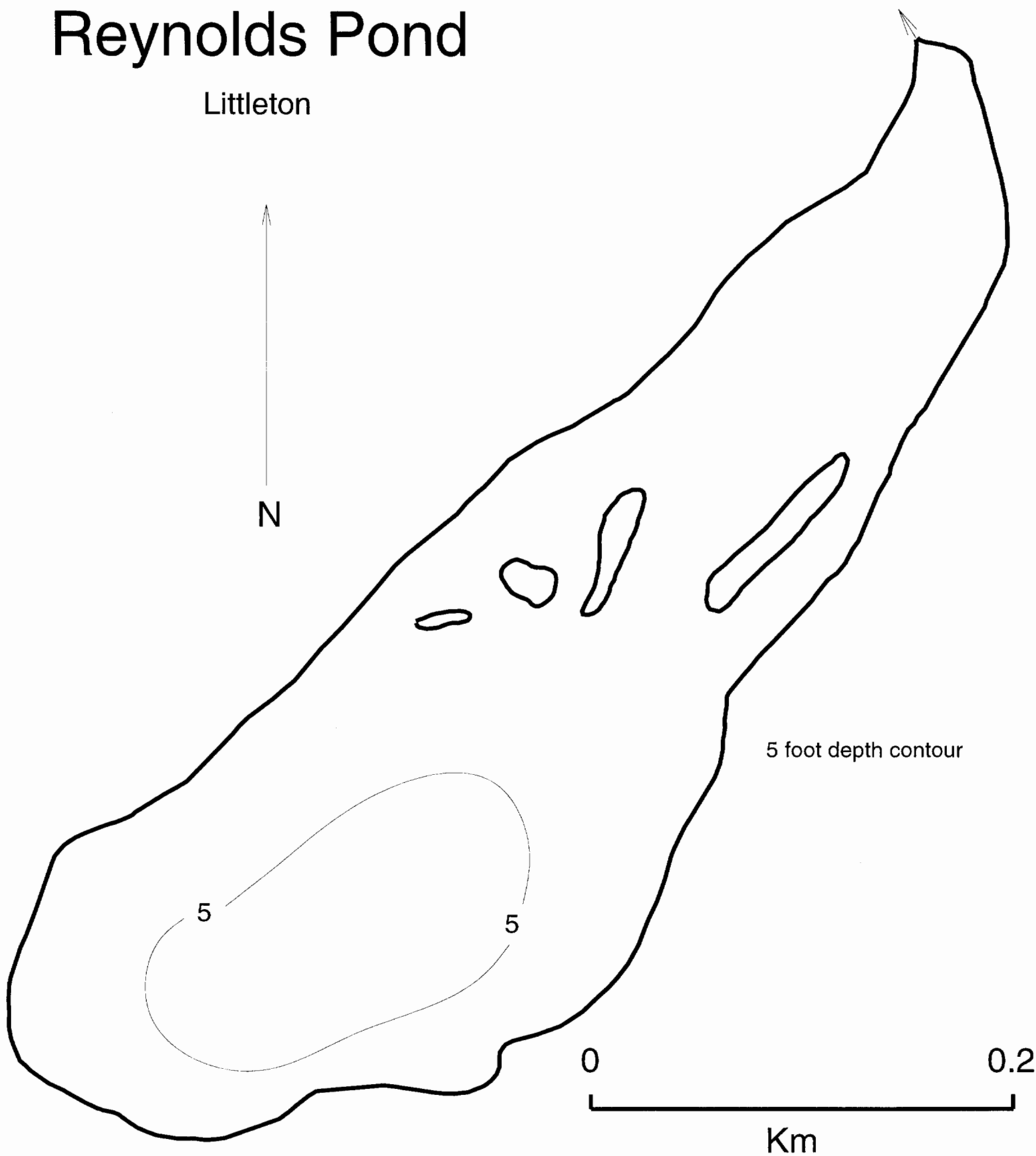
1. No boat launch. Canoe was put in at the outlet over private property.
2. No development. One house was located about 100 yards down the outlet stream. Pond was surrounded by trees and many stumps were observed along the waterfront.
3. This is a shallow, highly tea-colored, circum-neutral pond with a relatively high ANC for a New Hampshire pond. Calcium was also high.
4. A small earth/rock dam about 3 to 4 feet high with a sluiceway was present.
5. A good variety of net phytoplankton were present – at least 25 different genera were observed. Blue-greens dominated (67% of all genera) with *Microcystis* the most abundant (40%). The total algal biomass (chlorophyll) was average.

Reynolds Pond

Littleton



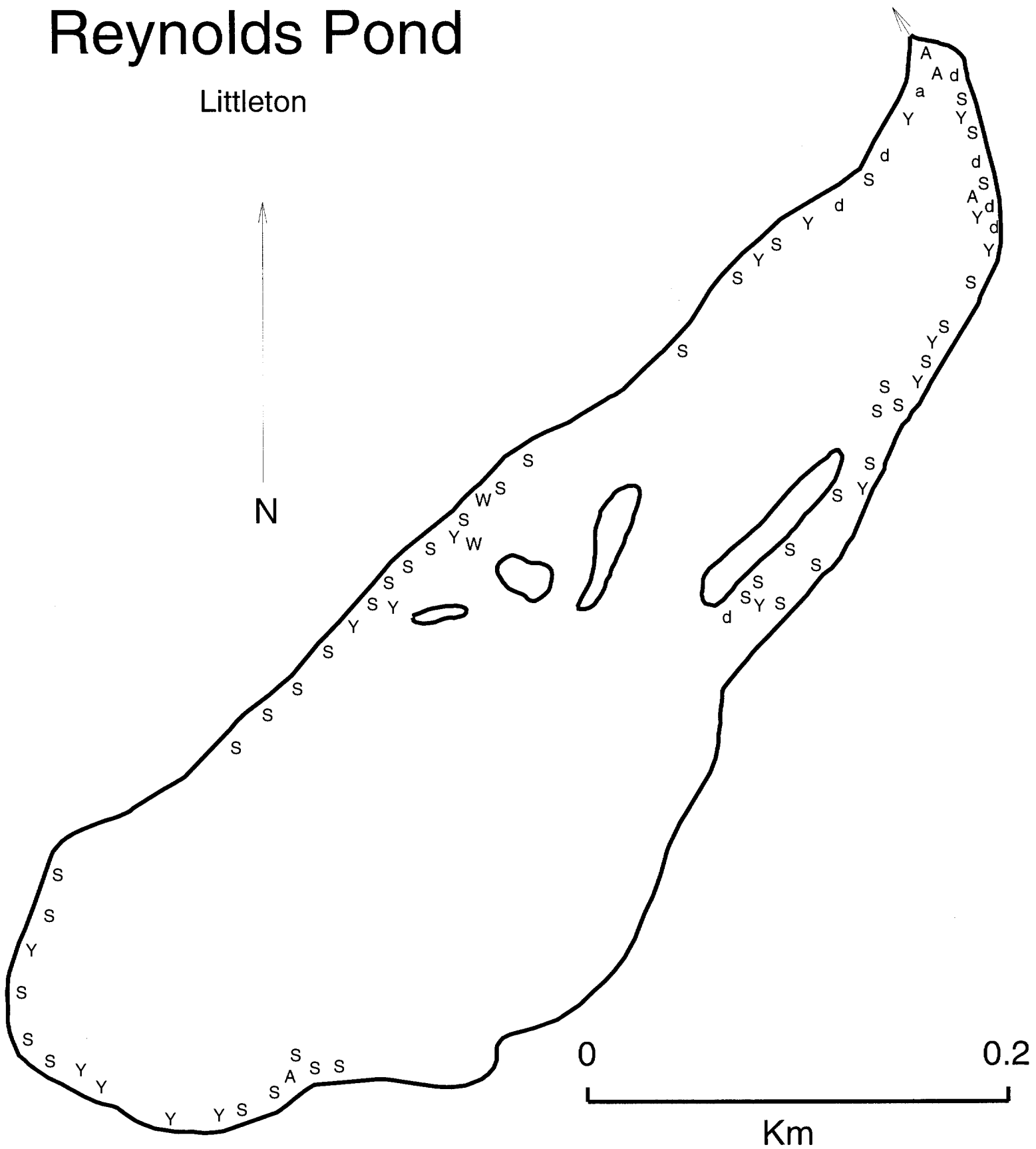
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Reynolds Pond

Littleton



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